

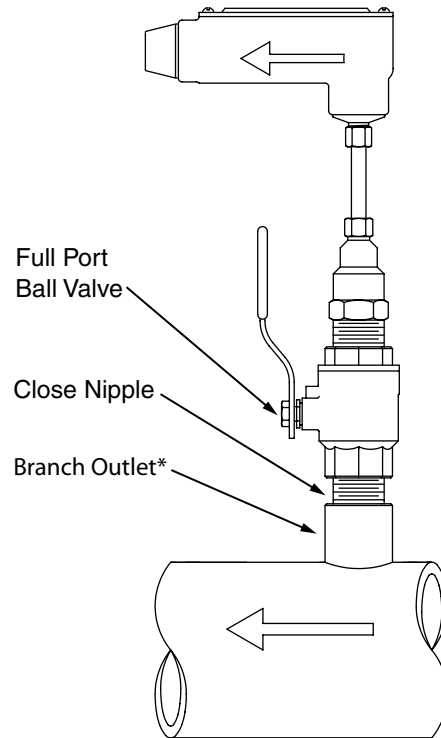
Installation Hardware Reference Guide for Insertion Turbine Flow Meters

All ONICON insertion type meters can be installed and removed via a 1" or larger full port ball valve without system shutdown. The terms: "Standard" and "Hot Tap" refer to the installation method of the isolation valve kit only.

Standard Installation Hardware: For new construction or scheduled shutdown. Once kit is installed, the flow meter can be installed or removed without system shutdown.

Hot Tap Installation Hardware: For applications which require the access hole in the pipe to be drilled through the valve using a wet tap drilling machine, while the hydronic system is pressurized and operating.

The most commonly ordered installation kits are listed below. For a complete list of installation kits offered by ONICON refer to the next two pages.



*Weld-on fitting, copper tee or saddle

Pipe Material	Kit Description	Items Included With Kit	Item #	Price
Carbon Steel / Black Iron	Standard flow meter installation kit for 1¼" and larger welded steel pipe	1" full port bronze ball valve 1" brass close nipple 1" weld-on carbon steel branch outlet	INSTL1	\$ 51.00
	Standard flow meter installation kit for 1¼" - 2½" threaded steel pipe	1" full port bronze ball valve 1" brass close nipple (pipe dia. x 12" long) threaded nipple with 1" NPT outlet	INSTL7	98.00
	Hot tap flow meter installation kit for 1¼" and larger welded steel pipe	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing 1¼" weld-on carbon steel branch outlet	INSTL2	98.00
Copper Tube (priced by size)	Standard flow meter installation kit for 1" to 2" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing Copper tee with 1½" outlet	INSTL3	82.00
	Standard flow meter installation kit for 2½" to 3" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing Copper tee with 1½" outlet	INSTL4	129.00
	Standard flow meter installation kit for 4" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing 4" x 4" x 1½" copper tee	INSTL9	234.00
	Hot tap flow meter installation kit for 2½" to 6" copper tube	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing SS clamp-on saddle with 1¼" outlet	INSTL22	295.00

Prices are subject to change without notice

PRICE LIST: Standard Installation Hardware for Insertion Flow Meters

All ONICON insertion type meters can be installed and removed via a 1" or larger full port ball valve without system shutdown.

The terms: "Standard" and "Hot Tap" refer to the installation kit types only.

Standard Installation Hardware: For new construction or scheduled shutdown. Once kit is installed, the flow meter can be installed or removed without system shutdown.

Hot Tap Installation Hardware: For applications which require the access hole in the pipe to be drilled through the valve using a wet tap drilling machine, while the hydronic system is pressurized and operating.

How to use price list: 1. Select type of Installation Hardware required: either Standard (STD) or Hot Tap (HTAP); 2. Choose the pipe material; 3. Choose Installation Kit based on material preference and/or pipe size.

TYPE	PIPE MATERIAL	PART #	KIT DESCRIPTION	ITEMS INCLUDED WITH KIT	PRICE
STD	Carbon steel / Black Iron (welded pipe)	INSTL1	Standard flow meter installation kit for 1¼" and larger welded steel pipe	1" full port bronze ball valve 1" brass close nipple 1" weld-on carbon steel branch outlet	\$ 51.00
STD	Carbon steel / Black Iron (welded pipe)	INSTL5	SS standard flow meter installation kit for 1¼" and larger welded steel pipe	1" full port SS ball valve 1" SS close nipple 1" weld-on carbon steel branch outlet	121.00
STD	Carbon steel / Black Iron (threaded pipe)	INSTL7	Standard flow meter installation kit for 1¼ - 2½" threaded steel pipe	1" full port bronze ball valve 1" brass close nipple (pipe dia. x 12" long) threaded nipple with 1" NPT outlet	98.00
STD	Carbon steel / Black Iron (threaded pipe)	INSTL8	SS standard flow meter installation kit for 1¼ - 2½" threaded steel pipe	1" full port SS ball valve 1" SS close nipple (pipe dia. x 12" long) threaded nipple with 1" NPT outlet	150.00
STD	Copper tube	INSTL3	Standard flow meter installation kit for 1" to 2" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing Copper tee with 1½" outlet	82.00
STD	Copper tube	INSTL4	Standard flow meter installation kit for 2½" to 3" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing Copper tee with 1½" outlet	129.00
STD	Copper tube	INSTL9	Standard flow meter installation kit for 4" copper tube	1" full port bronze ball valve 1" brass close nipple 1½" SWT x 1" NPT bushing 4" x 4" x 1½" copper tee	234.00
STD	Cement Lined Ductile Iron	INSTL10	Standard flow meter installation kit for 3" to 6" cement lined ductile iron	1" full port bronze ball valve 1" brass close nipple Clamp-on saddle with 1" outlet*	150.00
STD	Cement Lined Ductile Iron	INSTL11	Standard flow meter installation kit for 8" to 16" cement lined ductile iron	1" full port bronze ball valve 1" brass close nipple Clamp-on saddle with 1" outlet*	250.00
STD	Cement Lined Ductile Iron	INSTL12	SS flow meter installation kit for 3" to 16" cement lined ductile iron	1" full port SS ball valve 1" SS close nipple SS clamp-on saddle with 1" outlet*	350.00
STD	PVC	INSTL13	Standard flow meter installation kit for 1½" to 6" PVC pipe	1" full port bronze ball valve 1" brass close nipple Bronze clamp-on saddle with 1" outlet*	150.00
STD	PVC	INSTL14	Standard flow meter installation kit for 8" to 12" PVC pipe	1" full port bronze ball valve 1" brass close nipple Bronze clamp-on saddle with 1" outlet*	250.00
STD	PVC	INSTL15	SS/ PVC standard flow meter installation kit for 2" to 4" PVC pipe (for process/industrial applications)	1" full port SS ball valve 1" SS close nipple Sch. 80 PVC saddle with 1" outlet	195.00
STD	PVC	INSTL16	SS/ PVC standard flow meter installation kit for 6" PVC pipe (for process applications)	1" full port SS ball valve 1" SS close nipple Sch. 80 PVC saddle with 1" outlet	250.00
STD	PVC	INSTL17	SS flow meter installation kit for 8" to 12" PVC pipe	1" full port SS ball valve 1" SS close nipple SS clamp-on saddle with 1" outlet*	350.00
STD	Stainless steel	INSTL18	SS standard flow meter installation kit for SS pipe	1" full port SS ball valve 1" SS close nipple 1" SS weld-on branch outlet	175.00

* Saddles may include a 1" bushing

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PRICE LIST: Hot Tap Installation Hardware for Insertion Flow Meters

All ONICON insertion type meters can be installed and removed via a 1" or larger full port ball valve without system shutdown.

The terms: "Standard" and "Hot Tap" refer to the installation kit types only.

Standard Installation Hardware: For new construction or scheduled shutdown. Once kit is installed, the flow meter can be installed or removed without system shutdown.

Hot Tap Installation Hardware: For applications which require the access hole in the pipe to be drilled through the valve using a wet tap drilling machine, while the hydronic system is pressurized and operating.

How to use price list: 1. Select type of Installation Hardware required: either Standard (STD) or Hot Tap (HTAP); 2. Choose the pipe material; 3. Choose Installation Kit based on material preference and/or pipe size.

TYPE	PIPE MATERIAL	PART #	KIT DESCRIPTION	ITEMS INCLUDED WITH KIT	PRICE
HTAP	Carbon steel / Black Iron (welded pipe)	INSTL2	Hot tap flow meter installation kit for 1¼" and larger welded steel pipe	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing 1¼" weld-on carbon steel branch outlet	\$ 98.00
HTAP	Carbon steel / Black Iron (welded pipe)	INSTL6	SS hot tap flow meter installation kit for 1¼" and larger welded steel pipe	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing 1¼" weld-on carbon steel branch outlet	196.00
HTAP	Carbon steel / Black Iron (threaded pipe)	INSTL19	Hot tap flow meter installation kit for threaded steel pipe (1½" and up)	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Bronze/ductile iron clamp-on saddle with 1¼" outlet	195.00
HTAP	Carbon steel / Black Iron (threaded pipe)	INSTL20	SS hot tap flow meter installation kit for threaded steel pipe (1½" and up)	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing Bronze/ductile iron clamp-on saddle with 1¼" outlet	295.00
HTAP	Copper tube	INSTL21	Hot tap flow meter installation kit for 2" copper tube	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Ductile iron & SS clamp-on saddle with 1¼" outlet	225.00
HTAP	Copper tube	INSTL22	Hot tap flow meter installation kit for 2½" to 6" copper tube	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing SS clamp-on saddle with 1¼" outlet*	295.00
HTAP	Cement Lined Ductile Iron	INSTL23	Hot tap flow meter installation kit for 3" to 6" cement lined ductile iron	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Clamp-on saddle with 1¼" outlet*	195.00
HTAP	Cement Lined Ductile Iron	INSTL24	Hot tap flow meter installation kit for 8" to 16" cement lined ductile iron	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Clamp-on saddle with 1¼" outlet*	295.00
HTAP	Cement Lined Ductile Iron	INSTL25	Stainless steel hot tap flow meter installation kit for 3" to 6" cement lined ductile iron	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing SS clamp-on saddle with 1¼" outlet*	395.00
HTAP	Cement Lined Ductile Iron	INSTL26	Stainless steel hot tap flow meter installation kit for 8" to 16" cement lined ductile iron	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing SS clamp-on saddle with 1¼" outlet*	450.00
HTAP	PVC	INSTL27	Hot tap flow meter installation kit for 1½" to 6" PVC pipe	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Bronze clamp-on saddle with 1¼" outlet*	195.00
HTAP	PVC	INSTL28	Hot tap flow meter installation kit for 8" to 12" PVC pipe	1¼" full port bronze ball valve 1¼" brass close nipple 1¼" x 1" brass reducing bushing Bronze clamp-on saddle with 1¼" outlet*	295.00
HTAP	PVC	INSTL29	Stainless steel hot tap flow meter installation kit for 2" to 6" PVC pipe	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing SS clamp-on saddle with 1¼" outlet*	395.00
HTAP	PVC	INSTL30	Stainless steel hot tap flow meter installation kit for 8" to 12" PVC pipe	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing SS clamp-on saddle with 1¼" outlet*	450.00
HTAP	Stainless steel	INSTL31	Hot tap flow meter installation kit for stainless steel pipe	1¼" full port SS ball valve 1¼" SS close nipple 1¼" x 1" SS reducing bushing 1¼" weld-on SS branch outlet	250.00

* Saddles may include a 1.25" bushing

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